CELESTRON®

SPORT OPTICS 2008

BINOCULARS • SPOTTING SCOPES • TELESCOPES • SKYSCOUT® • MICROSCOPES

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ICON DESIGNATIONS

Look for one or more of the following icons as a quick reference guide for the intended use of each binocular and spotting scope line.

BINOCULAR ACCESSORIES

To maximize the enjoyment of your Celestron sport optics product, we recommend the following accessories. For more information, consult your Authorized Celestron Dealer or visit us at: **www.celestron.com.**

Welcome To The World Of Celestron Sport Optics

This catalog introduces you to the extensive selection of sport optics products that has earned Celestron a well-deserved reputation for providing products with optical excellence and outstanding design at an affordable price. Celestron is also recognized as a world leader in the design and manufacturing of high-quality computerized and non-computerized telescopes that are used by all levels of amateur astronomers. In keeping with this reputation, we only offer binoculars and spotting scopes that are manufactured to meet our rigorous and uncompromising standards. Celestron optical instruments deliver excellent resolution and contrast. Our binoculars and spotting scopes combine the highest quality precision optics and the most modern, user-oriented design features to produce visual instruments that perform exquisitely year after year. Celestron sport optics products offer versatility in viewing any subject of interest to you, be it a sporting event, wildlife, bird watching, scenic views in nature, travel, sailing — even the far reaches of the night sky. Inherent in the design of all of these products is our mission to provide the highest quality optical products at a competitive price.

All Celestron Binoculars Are Covered By Our NO-FAULT LIFETIME WARRANTY

Parts Of A Binocular

Binocular Tripod Adapters

These adapters allow you to mount your binocular to a tripod for added stability and convenience.

Model # 93520 (right)
Model # 93512-A (left)

Car Window Mount

View through your spotting scope from the comfort of your vehicle. Spotting scope attaches easily using the quick release mount.

Model # 93602

Photo Tripod

This sturdy aluminum tripod will provide a stable platform for your binocular or spotting scope. Fully adjustable legs and quick release mount.

Model # 93606

For complete product descriptions, specifications, and warranty information, please visit:
www.celestron.com

Which Binocular Is Right For You?

Celestron offers binoculars suited to a wide variety of uses including bird watching, boating, camping, hunting, sporting events, concerts, surveillance, astronomy, travel, and more. Whatever your optical needs might be, Celestron has a binocular style and size that's right for you.

Determining which binocular is the best for any particular use or situation depends on variables such as environment, individual preference, activity, and the range of different viewing circumstances in which you will use it.

We encourage you to look through this catalog at the different models, then ask your Celestron dealer for a demonstration. Whichever Celestron binocular you select, you can rest assured that you'll receive the utmost quality and value for your investment.

How To Evaluate Optical Quality

The brilliance and sharpness of the image you see through a particular binocular is determined by a number of different factors. Magnification, optical coatings, and lens diameter are just a few of the factors influencing how a binocular performs.

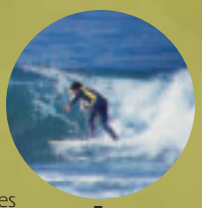
However, the single most important criteria in performance will always be the quality of the optics. Celestron delivers optical excellence through careful consideration of quality in the glass and lens coatings used, precision manufacturing processes, and uncompromising quality control.

Factors To Keep In Mind When Choosing A Binocular

Magnification

Magnification is the degree to which the object being viewed is enlarged. For example, with a 7x42 binocular, the number 7 represents the "binocular power". A 7-power binocular magnifies an image to seven times the size it would be when viewed by the normal, unaided human eye. The level of power affects the brightness of an image, so the lower the power of a binocular, the brighter the image will be. In general, increasing power will reduce both field of view and eye relief.

1x Unaided Eye



7x

Diameter (Objective Lens)

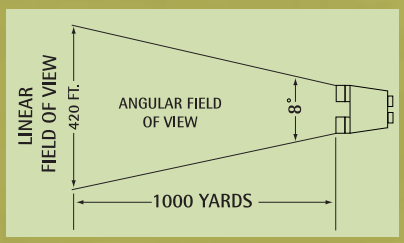
The objective lenses of binoculars are the larger lenses in the front of the binocular that the light passes through. The diameter of one of these lenses, given in millimeters (mm), will be the second number describing a particular binocular. Hence, a 7x42 binocular has an objective lens diameter of 42mm. The diameter of the lens determines the light gathering ability of the binocular, with the greater light gathering ability of a larger lens translating into greater detail and image brightness. This is especially useful in low light conditions and at night. Doubling the size of the objective lenses quadruples the light gathering ability of the binocular. For instance, a 7x50 binocular has twice the light gathering ability of a 7x35 binocular and four times the light gathering ability of a 7x25 binocular. This might lead you to assume that bigger is better when it comes to the diameter size of the objective lenses, but in reality, the size of the lens must be considered along with exit pupil and intended usage to determine the best binocular for you.

Exit Pupil

The diameter, in millimeters, of the beam of light that leaves the eyepiece of a particular pair of binoculars is the "exit pupil". The larger the exit pupil, the brighter the image obtained will be (except in bright daylight where your eye's pupil shrinks). Having a large exit pupil is advantageous under low light conditions and at night. For astronomical applications, the exit pupil of the binocular should correspond with the amount of dilation of your eye's pupil after it has adapted to the dark. To calculate the exit pupil, divide the size of the objective lens by the magnification of the binocular. For example, the exit pupil of a 7x42 binocular is calculated as 42/7= 6mm.

Factors To Keep In Mind When Choosing A Binocular (continued)

Field of View (FOV)



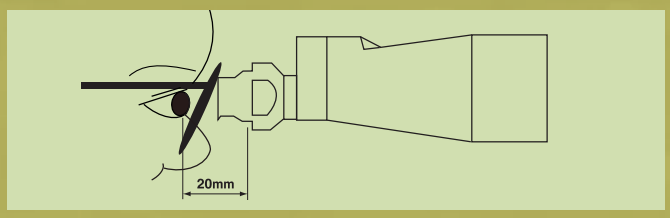
The size of the area that can be seen while looking through a pair of binoculars is referred to as the field of view. The angular field of view is usually indicated on the outside of the binocular, in degrees. The linear field of view refers to the area that can be observed at 1,000 yards, and is expressed in feet. A larger field of view translates to a larger area seen through the binocular. Field of view is related to magnification, with greater magnification creating a smaller field of view. Also a wider field of view generally results in less eye relief. A large field of view is especially desirable in situations where the object viewed is likely to move, or when the user is moving. You can use angular field of view to calculate the approximate linear field of view by multiplying the angular field of view by 52.5.

For example, if the angular field of view of a particular binocular is 8 degrees, then the linear field of view will be 420 feet (8x52.5).

Choosing A BINOCULAR

Eye Relief

This refers to the distance, in millimeters, that a binocular can be held from the eye with the full field of view still being comfortably observed. Eyeglass wearers in particular benefit from longer eye relief.



Near Focus

The distance between the binocular and the nearest object you can focus on, while maintaining a good image and sharp focus, defines the near focus of a binocular.

Brightness

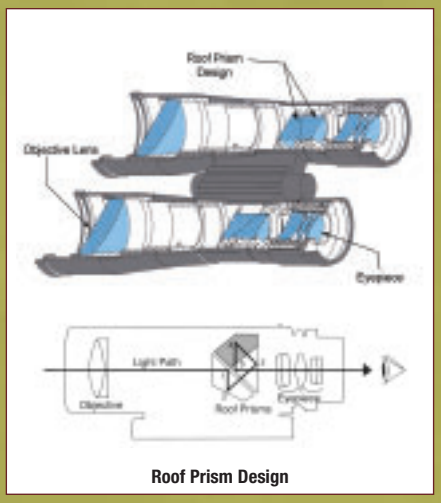
A binocular's ability to gather and transmit enough of the available light to give a sufficiently bright and sharp image defines its brightness. The brightness of a binocular also enhances color differentiation in the image observed. R.B.I. (Relative Brightness Index), Twilight Factor and R.L.E. (Relative Light Efficiency) are common indices used in the binocular industry, but are all somewhat flawed in their design and often prove fairly meaningless. Brightness is one criteria to be considered when purchasing binoculars, but is not the most important factor. Brightness is dependent on several factors including objective lens diameter, magnification, the type and quality of the objective lens glass, type of lens coatings and type of prisms used. In general, large objective lenses, low magnification and fully multi-coated lenses are

most desirable.

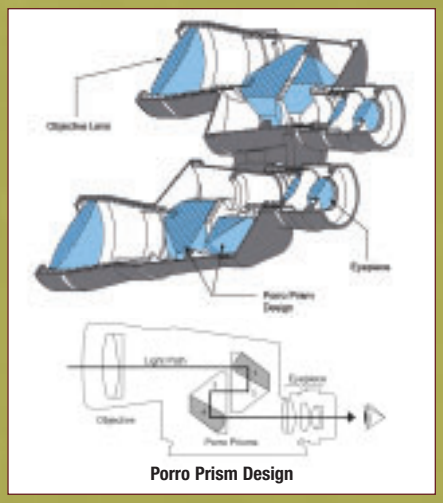
Factors To Keep In Mind When Choosing A Binocular (continued)

Prisms

Binocular prisms serve to invert the image and come in one of two basic designs: roof prism or porro prism. By design, roof prisms are more lightweight and compact for portability. Prisms are designated either BK7 (boro-silicate) or BAK-4 (barium crown). Both are economical and highly effective designs. The finer glass in the BAK-4 design is of a higher density (refractive index) and virtually eliminates internal light scattering, producing sharp, well-defined images.



Roof Prism Design



Porro Prism Design

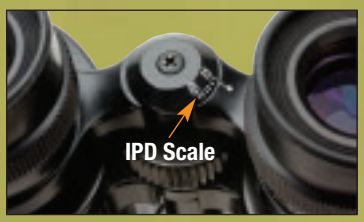
Contrast

Contrast refers to the degree to which both dim and bright objects can be differentiated from each other and from the background of the image. High contrast helps in observing fainter objects and discerning subtle visual details. Contrast is affected by the resolution. The finer the resolving power (in general), the better the contrast. High quality optical coatings provide better contrast in an image. The other factors affecting contrast include collimation, air turbulence, objective lens, prism and eyepiece quality.

Choosing A BINOCULAR

Resolution

Resolution is the measurement of a binocular's ability to distinguish fine detail and produce a sharp image. Better resolution also delivers more intense color. Resolution is related directly with the size of the objective lenses. Generally, a larger objective lens will deliver more detail to the eye than a smaller objective lens, regardless of the magnification of the binocular. Actual resolution is determined by the quality of the optical components, the type and quality of the optical coatings, atmospheric conditions, collimation (i.e. proper optical alignment), and the visual acuity of the user.



Collimation

Collimation is the alignment of the optical elements of the binocular to the mechanical axis. Good collimation prevents eyestrain, headaches and inferior and double images while improving resolution.

Interpupillary Distance

Since the distance between eyes varies, both eyepieces also need to be adjustable for individual use. Most full size porro prism binoculars are designed with a hinge that allows the user to move the eyepieces closer together or farther apart. This is called "adjusting the interpupillary distance" (IPD).

Factors To Keep In Mind When Choosing A Binocular (continued)

Focusing

A focusing mechanism allows you to reach sharp focus on objects at different distances. Most binoculars have either a center focus or individual focus mechanism.

Center Focus – This focusing mechanism uses a single wheel to move both eyepieces in and out to achieve focus. However, since a person's vision is slightly different from one eye to the other, center focus binoculars use a diopter adjustment to compensate. The diopter adjustment permits one of the eyepieces (usually the right) to be individually "fine focused" to the needs of each person's eyes.

Individual Focus – Allows for extra-precise focusing adjustments for image sharpness and clarity. Individual focus binoculars allow each eyepiece to be rotated and focused individually, eliminating the need for a diopter adjustment.

Optical Coatings

The optical elements (10 to 18 glass surfaces) of the binocular are coated to reduce internal light loss and glare, which in turn ensures even light transmission, resulting in greater image sharpness and contrast. Choosing a binocular with good lens coatings ensures greater satisfaction with the product you ultimately select. Lens coatings range in quality as listed below from lowest quality to highest quality:

Uncoated – No glass surfaces are coated. Less than 50% of the light is transmitted through the binocular resulting in very low contrast images with a lot of glare making them virtually unusable.

Coated – One or more surfaces are coated. Overall quality is poor.

Fully Coated — All air-to-glass surfaces are coated with a single layer of anti-reflecting magnesium fluoride coating (MgF2). Throughput transmission is typically close to 80% and more than acceptable for most users.

Multi-Coated – One or more surfaces are coated with multiple layers of a chemical compound and the other surfaces are fully coated. Multi-coatings increase light transmission resulting in brighter and sharper images with higher contrast levels.

Fully Multi-Coated – All air-to-glass surfaces are coated with multiple layers of a chemical compound. Fully multi-coated binoculars maximize throughput light transmission in a range of 90-95%. The result is extremely bright and sharp images with maximum contrast.

What Are Phase Coatings?

Phase coatings are a relatively new technology. These coatings are applied to roof prism binoculars only. Phase coatings are coatings applied to correct the phase shift of roof prisms which causes a deterioration of image quality. In the past, even the best roof prism binoculars suffered from a loss in contrast, resolution, and sharpness albeit ever so slight. In roof prisms, light waves reflected off of the prism edges (roof) are phase shifted (1/2 a wavelength of light) differently through each barrel of the binoculars. The phase shifting of the light waves cause a reduction in optical quality. Once phase coatings are applied to the roof prism surfaces, the reflected light off of the roof prisms is phase corrected (similar) through each barrel of the binocular. Thus, maximum resolution can be achieved for the particular aperture size and image sharpness and contrast are greatly enhanced. Celestron's premium Noble Series binoculars are phase coated and fully multi-coated.

Without Phase Coatings

With Phase Coatings

UPCLOSE® BINOCULARS 6-7
Our economically priced full size Porro Prism binoculars. These binoculars will handle your most demanding viewing challenges.

OUTLAND® BINOCULARS 8
The rugged Outland waterproof series is designed to perform under tough outdoor conditions.

OUTLAND® LX BINOCULARS 9
The Outland LX is the high performance version of our popular Outland series. Offering incredible optics in a rugged waterproof design.

NOBLE BINOCULARS 10
The Noble Series is a premium quality Roof Prism binocular. Waterproof design and fully multi-coated and phase coated optics are just a couple of features this incredible binocular has to offer.

SPECIALTY BINOCULARS 11
More than just binoculars, our Specialty models offer value added features for those who expect just a little bit more.

SKYMASTER BINOCULARS 12-13
These large aperture binoculars are ideal for astronomical (sky) viewing or terrestrial (land) use – especially over long distances.

VISTAPIX® 14-15
VistaPix gives you the best of both worlds. A high quality binocular and a built-in digital camera.

ULTIMA® SPOTTERS 18-19
Out of the box it's ready for action! The highly acclaimed Ultima Series features a zoom eyepiece and multi-coated optics.

PRODUCTS

ULTIMA® ED SPOTTERS 20
The top of the line Ultima spotting scope. Optics feature Extra Low Dispersion glass for razor sharp images.

MAK SPOTTERS 21-22
Our MAK series brings portability and versatility to a new level. These scopes are great for terrestrial (land) and astronomical use.

REFRACTOR SPOTTERS 23
Providing uncompromising optical quality and versatility with rugged construction, there is a Celestron refractor to fit your needs.

ONYX & C5 SPOTTERS 24
In a class all their own, the Onyx EDF and C5 spotting scopes offer breathtaking views for those serious about their optics.

VISTAPIX® IS70 25
The VistaPix Imaging Spotter (IS) from Celestron. Capture the action closer than ever before with this 3MP digital camera spotting scope.

TELESCOPES 26-31
We offer three complete lines of telescopes for the budding astronomer. Our PowerSeeker, AstroMaster and NexStar SLT telescopes offer quality optics at a price to fit anyone's budget.

SKYSCOUT & ACCESSORIES 32-33
The SkyScout is a revolutionary handheld device that uses advanced GPS technology with point and click convenience to identify thousands of stars, planets, constellations and more.

MICROSCOPES 34-35
Celestron is proud to offer these hot new digital microscopes. We're taking traditional microscope design and moving it into the digital realm.

UpClose 16x32
Model #71135

UpClose®
ROOF PRISM

Hide and seek! Small enough to tuck away in a pocket, purse, backpack, or vehicle storage compartment, the UpClose Roof Prism Series from Celestron is perfect for catching that great view at a moment's notice. The UpClose Roof Prism Series has something for everyone whether for action sports, vacationing, nature viewing, wildlife observing or various other activities. They are available in popular sizes and are priced to be extremely affordable. UpClose roof prism models are rubber covered for protection and ease of handling. These binoculars are fully coated to give clear, sharp, high contrast views.

UpClose Roof Prism Features:

- Fully coated optics
- Protective rubber covering
- Ultra compact design with folding center bridge
- Diopter adjustment for precise focusing
- Water resistant body
- Nylon carrying case
- No-Fault Lifetime Warranty

UPCLOSE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71132	8x21	Roof	BK7	Fully Coated	Water Resistant	7°	367	2.6mm	11mm	7 ft.	7 oz.	No	No Fault
71133	10x25	Roof	BK7	Fully Coated	Water Resistant	5.5°	288	2.5mm	10mm	18 ft.	9 oz.	No	No Fault
71134	12x25	Roof	BK7	Fully Coated	Water Resistant	4.5°	236	2.1mm	10mm	14 ft.	9 oz.	No	No Fault
71135	16x32	Roof	BK7	Fully Coated	Water Resistant	3.7°	194	2.0mm	10mm	25 ft.	11 oz.	No	No Fault

Specifications subject to change without prior notice.

A binocular for all reasons! From nature to NASCAR®, UpClose binoculars will handle your most demanding viewing challenges. The economically-priced UpClose Porro Prism Series is comprised of five full-size models, including one zoom model. UpClose porro prisms are robust full-size binoculars that feature a large knurled center focus knob for smooth and accurate focusing and a diopter adjustment on the right eyepiece for fine tuning the focus to your individual eyesight requirements. The Zoom model features a conveniently located finger lever for quick, accurate zoom adjustments. Rubber covering with finger impressions provides comfort and a secure grip. Most important, UpClose binoculars feature high quality BK7 optics to provide you and your family bright, clear, and sharp views during a variety of outdoor activities like sporting events, bird watching, wildlife viewing, hiking, scenic nature walks, and concerts and live performances to name a few. The UpClose is an ideal choice for an affordable high quality binocular that will provide years of enjoyable use.

UpClose 12x50 UpClose
Model #71144

UpClose®
PORRO PRISM

UpClose Porro Prism Features:

- Rubber covered
- Fully coated optics
- Diopter adjustment for fine focusing
- Offered in both wide angle and zoom models
- Rubber covering for a firm grip
- Water resistant body and nylon carrying case
- Tripod adaptable
- No-Fault Lifetime Warranty

UPCLOSE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71136	7x35	Porro	BK7	Fully Coated	Weather Resistant	8°	419	5mm	11mm	15ft.	24oz.	Yes	No Fault
71142	8x40	Porro	BK7	Fully Coated	Weather Resistant	8.2 °	430	5mm	12mm	16ft.	24oz.	Ye	No Fault
71137	10x50	Porro	BK7	Fully Coated	Weather Resistant	7°	367	5mm	11mm	24ft.	25oz.	Yes	No Fault
71144	20x50	Porro	BK7	Fully Coated	Weather Resistant	3.2 °	168	2.5mm	7mm	36ft.	25oz.	Yes	No Fault
71140	10-30x50 Zoom	Porro	BK7	Fully Coated	Weather Resistant	4.1°	215	5mm @10x	14mm	27ft. @10x	29oz.	Yes	No Fault

Specifications subject to change without prior notice.

Waterproof

Outland 8x42
Model #71167

Outland®
ROOF PRISM

Outland 8x25
Model #71165

Outland 10x25
Model #71166

Outland 10x42
Model #71168

Conquer the elements! The Outland Waterproof Series from Celestron is a spectacular value in rugged roof prism binoculars. Designed to perform under tough outdoor conditions, Outlands are perfectly suited to handle demanding outdoor activities like hunting, hiking, camping, skiing, backpacking, or river rafting but are equally at home at sporting events or the family picnic. Outland binoculars feature sleek, modern two-color styling with rubber covering for a secure and comfortable grip. The Outland's high-performance optics feature BAK-4 prisms and multi-coatings to ensure high contrast and resolution. All models are waterproof for use in all weather conditions.

Outland Waterproof Series Features:

- Multi-coated optics
- Waterproof and fogproof
- Protective rubber covering
- Twist-up eyecups for quick adjustment for optimum eye relief (full-size models)
- Molded finger impressions for a firm grip in any weather condition
- Moisture resistant neoprene carrying case
- No-Fault Lifetime Warranty

OUTLAND SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71165	8x25	Roof	BAK-4	Multi-Coated	Waterproof	6.2°	325	3.1mm	17mm	13 ft.	14 oz.	No	No Fault
71166	10x25	Roof	BAK-4	Multi-Coated	Waterproof	5.2°	272	2.5mm	16mm	13 ft.	14 oz.	No	No Fault
71167	8x42	Roof	BAK-4	Multi-Coated	Waterproof	6.0°	314	5.25mm	19mm	15 ft.	24 oz.	Yes	No Fault
71168	10x42	Roof	BAK-4	Multi-Coated	Waterproof	5.2°	272	4.2mm	16mm	15 ft.	24 oz.	Yes	No Fault

Specifications subject to change without prior notice.

Taking it to the next level! The Outland LX Waterproof Series takes this popular series to an even higher performance level. Significant features include fully multi-coated optics and extreme near focus. All Outland LX models are waterproof as well as fogproof.

Waterproof

Outland LX 8x32
Roof Prism
Model #71103

Outland® LX
ROOF PRISM

Outland LX 8x42
Roof Prism
Model #71104

Outland LX 10x42
Roof Prism
Model #71105

Outland LX Waterproof Series Features:

- Fully multi-coated optics
- Nitrogen filled and sealed bodies
- Protective rubber covering
- Extreme near focus
- Multi position twist-up eyecups
- Moisture resistant neoprene carrying case
- No-Fault Lifetime Warranty

OUTLAND LX SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71103	8x32	Roof	BAK-4	Fully Multi-Coated	Waterproof	7.5°	393	4mm	16mm	5 ft.	18oz.	Yes	No Fault
71104	8x42	Roof	BAK-4	Fully Multi-Coated	Waterproof	7.4°	388	5.3mm	18mm	5 ft.	23oz.	Yes	No Fault
71105	10x42	Roof	BAK-4	Fully Multi-Coated	Waterproof	6.5°	340	4.2mm	15mm	5 ft.	23oz.	Yes	No Fault

Specifications subject to change without prior notice.

Waterproof

Noble 10x50
Model #71206

Noble
ROOF PRISM

A revealing look at the beauties of nature! The magnificent Noble Series from Celestron is one of the best values in a premium quality roof prism binocular available today. When you hold and view through a Noble, you'll be immediately impressed by its solid compact design, its smooth precision focus adjustments, and the clarity and fidelity of its fully multi-coated and phase coated optics (See Page 5 for a description of Phase Coatings). In short, the Noble takes the viewing experience to a breathtaking new level of enjoyment. There is a Noble size and model for the serious bird watcher, the avid hunter as well as the serious sports enthusiast. All models are rubber covered and fully waterproof. All feature extreme close focus performance – the 8x32 as close as 5 feet!

Noble 8x32
Model #71204

Noble 8x42
Model #71205

Noble 10x42
Model #71207

Noble Series Features:

- Incredible near focus for avid bird watchers
- Fully multi-coated and phase coated optics
- Nitrogen filled and completely waterproof
- Protective rubber covering with ribbed exterior for firm grip
- Long eye relief ideal for eyeglass and sunglass wearers
- Twist-up eyecups for quick adjustment for optimum eye relief
- Soft carrying case
- No-Fault Lifetime Warranty

NOBLE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71204	8x32	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	7.5°	393	4mm	20mm	5 ft.	19 oz.	Yes	No Fault
71205	8x42	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	6.5°	340	5.3mm	20mm	8 ft.	23 oz.	Yes	No Fault
71207	10x42	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	6°	314	4.2mm	16mm	8 ft.	24 oz.	Yes	No Fault
71206	10x50	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	5°	262	5mm	20mm	9 ft.	27 oz.	Yes	No Fault

Specifications subject to change without prior notice.

7x50 IF/RC Binocular – The perfect choice for your next marine adventure. Oceana porro prism waterproof binocular features an integral compass and reticle. The Oceana model comes rubber coated for handling comfort and added protection from the elements. High performance BAK-4 prisms and multi-coatings produce views with high contrast, optimum clarity, and resolution.

Electric Power Zoom Binocular – Compact porro prism design that makes changing power quick & easy with the electric zoom buttons. Features a 8-24 power zoom with a 25mm aperture and compact package. Operates with 2 AAA batteries (user supplied).

Digital Compass Binocular – More than just a binocular. This compact roof prism binocular has a large 1.6" LCD screen that displays the multiple functions of this binocular. Functions include digital compass, clock, temperature and stop watch. Includes a soft case and CR2032 battery.

The 71189 IF/RC features a rangefinder scale with backlit compass.

Waterproof

Oceana 7x50IF/RC (Individual Focus/Reticle Compass) Model #71189

Specialty BINOCULARS

NEW

8-24x25 Electric Power Zoom Binocular Model #72121

NEW

10x25 Digital Compass Binocular Model #72122

Model #72121 – Electric Power Zoom Binocular

- Fully Coated Optics
- High Quality BK-7 Prisms
- Water Resistant
- Electric Power Zoom – 8 to 24 Power
- Soft Carrying Case
- No-Fault Lifetime Warranty

Model #72122 – Digital Compass Binocular

- Fully Coated Optics
- High Index BK-7 Prisms
- 1.6" (41mm) LCD Display
- Features Digital Compass (±3°), Time, Temperature (F/C), and Stop Watch (up to 1 Hr.)
- Water Resistant
- Soft Carrying Case
- No-Fault Lifetime Warranty

Model #71189 – 7x50IF/RC

- Backlit illuminated liquid dampened magnetic compass; excellent navigational tool for land or sea
- Horizontal and vertical etched reticle to help determine relative size of objects
- Range finding dial calculates actual object distance or size
- Completely waterproof – dry nitrogen charged and sealed with internal O-rings to prevent internal fogging - unaffected by climate and temperature changes
- Individual eyepiece focus with diopter scale for quick and accurate focusing
- Excellent depth of field for minimal focus adjustments
- Nautical style padded canvas case and straps
- Attached objective caps
- Tripod adapter fitting for tripod mounting
- No-Fault Lifetime Warranty

SPECIALTY SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71189	7x50 IF/RC	Porro	BAK-4	Multi-Coated	Waterproof	7°	367	7.1mm	26mm	18 ft.	38 oz.	Yes	No-Fault
72121	8-24x25 Zoom	Porro	BK-7	Fully Coated	No	4.4°	231	10mm 3.1mm	16 ft. @ 8x	@ 8x	12oz.	No	No-Fault
72122	10x25	Roof	BK-7	Fully Coated	No	5.6°	288	2.5mm	10mm	16 ft.	13oz.	No	No-Fault

Specifications subject to change without prior notice.

SkyMaster 25x100
Model #71017

SkyMaster®
PORRO PRISM

SkyMaster 15x70
Model #71009

SkyMaster 20x80
Model #71018

Model #71018 20x80 includes a deluxe padded soft carrying case.

Model #71009 15x70 includes a tripod adapter.

Things are definitely looking up!

Celestron's SkyMaster Series of large aperture binoculars are a phenomenal value for high performance binoculars. Ideal for astronomical viewing or for terrestrial (land) use, especially over long distances. SkyMaster models feature high quality BAK-4 prisms and multi-coated optics for enhanced contrast. Celestron has designed and engineered the larger SkyMaster models to meet the special demands of extended astronomical or terrestrial viewing sessions. For maximum stability and secure optical alignment, the 80mm and 100mm SkyMaster models feature enhanced structural reinforcement to the main binocular body. As an additional convenience, the 80mm and 100mm SkyMaster models also include an integral super rigid photo tripod adapter. The SkyMaster Series binoculars are built to provide years of magnificent views of the world around you and the heavens above.

The Moon: photo courtesy of Damian Peach

SkyMaster Series Features:

- Waterproof (53mm, 63mm and100mm) and water-resistant (80mm and 70mm) models
- Multi-coated optics
- High quality BAK-4 prisms
- Large aperture perfect for low light conditions and stargazing
- Integrated tripod adapter rod (80mm & 100mm)
- Long eye relief ideal for eyeglass wearers
- Diopter adjustment for fine focusing
- No-Fault Lifetime Warranty

SKYMASTER SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71009	15x70	Porro	BAK-4	Multi-Coated	Water Resistant	4.4°	230	4.7mm	18mm	43 ft.	48 oz.	Included	No Fault
71018	20x80	Porro	BAK-4	Multi-Coated	Water Resistant	3.2°	168	4mm	17mm	80 ft.	94 oz.	Built-in	No Fault
71017	25x100	Porro	BAK-4	Multi-Coated	Waterproof	3°	157	4mm	15mm	80 ft.	140 oz.	Built-in	No Fault

Specifications subject to change without prior notice.

New SkyMasters for 2008!

The 8x56 and 9x63 models are waterproof and feature a shock-resistant rubber covering, and twist-up eyecups. They also provide superb image quality with BAK-4 prisms and fully multi-coated optics. Their excellent depth of field gives a good overview without the need for constant refocusing. The high power zoom models (20-100x70 and 25-125x80) make it easier to see details at extreme powers when conditions allow.

Comet Linear: photo courtesy of Sebastian Voltmer

SkyMaster 8x56
Model #72022

Waterproof

SkyMaster 9x63
Model #72023

Waterproof

SkyMaster®
PORRO PRISM

SkyMaster
20-100x70 Zoom
Model #71012

Model #71012 20-100x70 Zoom includes a tripod adapter.

SkyMaster
25-125x80 Zoom
Model #71020

SKYMASTER SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
72022	8x56	Porro	BAK-4	Fully Multi-Coated	Waterproof	5.8°	304	7mm	18mm	25 ft.	38 oz.	Yes	No Fault
72023	9x63	Porro	BAK-4	Fully Multi-Coated	Waterproof	5°	262	7mm	17mm	35 ft.	44 oz.	Yes	No Fault
71012	20-100x70 Zoom	Porro	BAK-4	Multi-Coated	Weather Resistant	1.25°	3.5mm	3.5mm @ 20x	22mm @ 20x	72 ft. @ 20x	53 oz.	Included	No Fault
71020	25-125x80 Zoom	Porro	BAK-4	Multi-Coated	Weather Resistant	1.25°	3.2mm	3.2mm @ 25x	13mm @ 25x	98 ft. @ 25x	76 oz.	Built-in	No Fault

Specifications subject to change without prior notice.

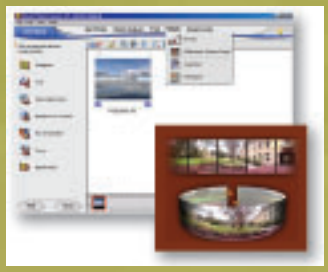
See it, save it, print it, send it, and replay it with the versatile VistaPix® Digital Camera/Binocular.

Celestron's VistaPix binocular/digital camera gives you the best of both worlds! VistaPix is a high-quality binocular for clear, sharp, bright views of the outdoors and a versatile digital camera – all in one! VistaPix is all you need to view the world around you and save those memorable moments to share with others. VistaPix images can be stored using its internal mass storage until you're ready to download them to your PC. Once downloaded, the fun begins. With VistaPix Photo Express SE software, you can crop, re-size, manipulate color and much more. You can even record and play back videos! VistaPix gives you the tools to add that creative touch.

All VistaPix models include a 2-year warranty.

View and manipulate images on your PC.

VistaPix come with software that lets you organize and manipulate your images. Mass storage capability allows you to view your images in Windows® Explorer and "copy and paste" them directly to your PC's hard drive. There's no need to install drivers for most versions of Windows.



Included software is easy to use and highly intuitive. You can crop and manipulate images and even create 360º panoramas!

What you see through the VistaPix binoculars is what the VistaPix digital camera photographs.

- VistaPix captures the image at the same magnification level as seen through the binoculars (see example below).
- LCD models features 8x Zoom PLUS 4x Digital Zoom. The LCD can digitally zoom in on an object up to 4 times closer than seen through the binocular (Models 72214 & 72215 only) – that's 32x zoom magnification!
- PLUS... all VistaPix models can record continuous video!

View images on your TV at up to 8x.*
*** Models 72214 and 72215 only with supplied cables.**

View and manipulate images on your PC or laptop.

Print out images quickly and easily.

1. **1.5" color LCD screen**
2. **Easy-to-locate camera function buttons**
3. **Center focus knob for binoculars**
4. **16MB flash memory**
5. **Removable SD memory card slot**
6. **USB port**

Image as seen with the un-aided eye.

Image taken at the same 8x magnification as the VistaPix

Use the bright, sharp 1.5" LCD screen to preview a scene, select the image, zoom in and view it at 4x digitally, or record it as a still image or video. You can easily review, save, or delete images.

The VistaPix roof prism binoculars provide sharp, clear, bright views. They feature a single focus knob as well as a right eyepiece diopter adjustment for fine focusing. High quality optics are either fully-coated or multi-coated depending on the model.

Specifications subject to change without prior notice.

Celestron VistaPix® models come with a variety of user-friendly features and are available in two color choices.

VistaPix 8x22
0.3MP Champagne Gold
Model #72204

VistaPix 8x22
0.3MP Hunter Green
Model #72217

VistaPix 8x22 Compact
3.1MP Champagne Gold
w/ FM Radio & 8x Camera Lens
Model #72218

VistaPix 8x32
2MP Champagne Gold
Model #72216

VistaPix 8x32
3.1MP with LCD
Champagne Gold
Model #72214

VistaPix 8x32
3.1MP with LCD
Hunter Green
Model #72215

VISTAPIX SPECIFICATIONS

BINOCULAR

MODEL	SIZE	TYPE	PRISMS	COATING	WATER RESISTANT	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
72204	8x22	Roof	BK7	Fully Coated	Yes	7°	368	2.8mm	11mm	16 ft.	9 oz.	Yes	2 Year
72217	8x22	Roof	BK7	Fully Coated	Yes	7°	368	2.8mm	11mm	16 ft.	9 oz.	Yes	2 Year
72218	8x22	Roof	BK7	Fully Coated	Yes	7°	368	2.8mm	10mm	16 ft.	11 oz.	No	2 Year
72216	8x32	Roof	BAK-4	Multi-Coated	Yes	5.6°	294	4mm	12.5mm	16 ft.	13 oz.	Yes	2 Year
72214	8x32	Roof	BK7	Multi-Coated	Yes	5.6°	294	4mm	12.5mm	16 ft.	23 oz.	Yes	2 Year
72215	8x32	Roof	BK7	Multi-Coated	Yes	5.6°	294	4mm	12.5mm	16 ft.	23 oz.	Yes	2 Year

CAMERA

MODEL	SENSOR	RESOLUTION	DIGITAL ZOOM	LCD	MEMORY	FIELD OF VIEW	NEAR FOCUS	TV OUT	# IMAGES HI-RES	# IMAGES LOW-RES	SELF TIMER	VIDEO (approx.)	BATTERIES REQUIRED
72204	CMOS	0.3MP (640x480)	N/A	N/A	8MB SDRAM	7.5°x5.6°	33 ft.	N/A	100	400	10 Sec.	N/A	2-AAA
72217	CMOS	0.3MP (640x480)	N/A	N/A	8MB SDRAM	7.5°x5.6°	33 ft.	N/A	100	400	10 Sec.	N/A	2-AAA
72218	CMOS	3.1MP (2048x1536)	6x	1.5"	16MB Flash & SD Card	5.4°	8"@Macro 10'@Scenic	N/A	30	312	10 sec.	3 min.	2-AAA
72216	CMOS	2.0MP (1600x1200)	N/A	N/A	8MB SDRAM & SD Card	7.3°x9.1°	49 ft.	N/A	8	20	10 Sec.	2-3 min.	2-AAA
72214	CMOS	3.1MP (2048x1536)	4x	1.5"	32MB Flash & SD Card	7.3°x9.1°	49 ft.	NTSC/ PAL	40	130	10 Sec.	10 min.	4-AAA
72215	CMOS	3.1MP (2048x1536)	4x	1.5"	32MB Flash & SD Card	7.3°x9.1°	49 ft.	NTSC/ PAL	40	130	10 Sec.	10 min.	4-AAA

Specifications subject to change without prior notice.

Choosing A SPOTTING SCOPE

Here are the more important criteria that you may wish to consider when selecting a spotting scope.

Coatings

Optical coatings determine the throughput transmission of a spotting scope. The better the quality of the lens coatings, the brighter the image will be and the higher the image's contrast. Fully multi-coated lenses are the best quality you can choose.

Extra Low Dispersion Glass Optics (ED)

Several models of Celestron's premium spotting scopes feature Extra Low Dispersion Glass which provides excellent color correction and razor sharp images for serious nature and bird watchers. It also virtually eliminates chromatic aberration.

Construction

Both mechanical and optical construction are important. Alignment of the optical elements (collimation) is critical for achieving optimal results. All Celestron spotting scopes are collimated at the factory to ensure comfortable viewing, even during extended viewing sessions.

Diameter Of Objective Lens

A spotting scope is a telescope that produces an upright image. The major function of a spotting scope, like all telescopes, is to gather light. The larger the diameter of the spotting scope's objective lens, the more light it gathers, with more light translating into a brighter and better image. As the size of the objective lens increases, greater detail and clarity of image will be afforded.

Magnification (Power)

Magnification is the degree to which the object being viewed is enlarged. Magnification, or power, in a spotting scope is a function of the relationship of two independent optical systems – the optics of the spotting scope itself and the eyepiece being used. By exchanging an eyepiece of one focal length for another eyepiece with a different

Magnification (Power) (continued)

focal length, you can increase or decrease the magnification of the spotting scope. There is, however, a limit to how much you can magnify an image. As a rule of thumb, the maximum magnification is equal to 50 to 60 times the diameter (in inches) of the spotting scope's objective lens (under ideal conditions). Magnification higher than this will produce a dim and fuzzy image. In most cases, a magnification of 20 to 35x is the most useful and satisfying range to use with spotting scopes under normal daytime conditions. Zoom spotting scopes have a single, built-in eyepiece to give you a range of magnifications without the need to change eyepieces.

Focal Length

Focal length is the distance, in an optical system, from the objective lens to the point where the instrument is in focus (the focal point). The longer the focal length of the instrument, the larger the image scale it offers.

Near Focus

Near focus is the distance between the instrument and the nearest object you can focus on, while maintaining a good image and sharp focus, defines the near focus. Short near focus is important for close-up visual and photographic work.

Field Of View

The size of the area, in degrees, that can be seen while looking through the spotting scope is the angular field of view. Linear field of view refers to the width of the area that can be observed at 1,000 yards, and is expressed in feet. A larger field of view translates to a larger area seen through the spotting scope.

Field of view is related to magnification. In general, the greater the magnification the smaller field of view. The angular field of view is calculated by dividing the apparent field of the eyepiece by the magnification being used. (AFE ÷ Magnification = AFV). Once the angular field of view is known, the linear field can be determined by multiplying the angular field by 52.5.

Focal Ratio or Photographic Speed (f/Stop)

Focal ratio is the ratio of the focal length of the spotting scope to the diameter (aperture) of its objective lens, in millimeters. Spotting scopes with small f/stop numbers react to incoming light faster than spotting scopes with larger f/stop numbers. So, the smaller the f/stop number, the shorter your photographic exposure time.

Exit Pupil

The diameter, in millimeters, of the beam of light that leaves the eyepiece of the spotting scope is the "exit pupil". To calculate the exit pupil, divide the size of the objective lens, in millimeters, by the magnification of the

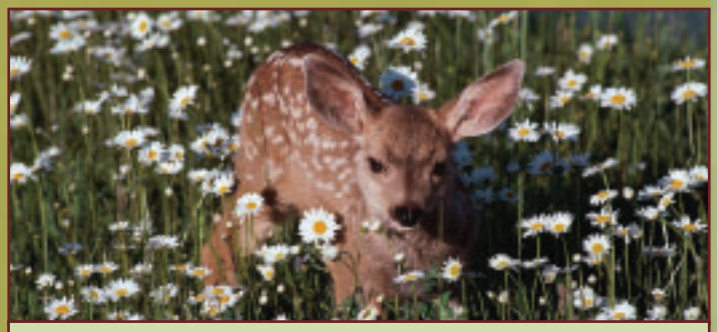
Exit Pupil (continued)
eyepiece being used. The larger the exit pupil, the brighter the image.

Eye Relief
Eye relief is the minimum distance between the eyepiece of the spotting scope and your eye that still allows you to see the entire field of view.

Portability
For applications such as hiking and hunting, portability is a prime factor to consider. For stationary viewing, a large diameter objective lens becomes of primary importance.

Use Of A Tripod
A spotting scope is usually mounted on a tripod, although they can be hand held. It is advisable to mount the spotting scope to a tripod to reduce the movement that accompanies the use of any optical instrument by hand.

Versatility
Most Celestron spotting scopes can be used three different ways. First, as a telephoto lens when attached to a 35mm SLR camera or digital camera. Second, for terrestrial (land) observing. Third, as a telescope. This is the ideal kind of versatility you should look for.



Choosing A SPOTTING SCOPE

Parts Of A Spotting Scope

Ultima 65 - 45°
Model #52248

Ultima®
REFRACTOR

Ultima 65 - Straight
Model #52249

Celestron's highly acclaimed Ultima Series is more versatile than ever. Ultima models are available in 45° and "straight-thru" eyepiece configurations. In addition, all Ultima models are waterproof. The Ultima Series feature multi-coated optics to provide exceptional clarity and brilliance. The Ultima 80mm features excellent multi-coated optics offering 50% brighter images than the 65mm. The largest aperture scope in the Ultima line, the 100mm, provides the best performance in low light conditions.

Ultima Series spotters perform extremely well under all light conditions which makes them ideal for all types of outdoor viewing activities including bird watching, nature and wildlife, target shooting – even astronomy. The Ultimas are as great to look at as they are to look through. Their sleek design is accented with graceful contours that make them easy to hold and handle.

The Ultima Series spotters are the perfect choice for the outdoor enthusiast looking for a spotter with quality design and construction, superior optics, and versatility at an affordable price.

Ultima Series Features:

- 100mm, 80mm, 65mm Aperture Spotting Scopes
- Bak-4 Prisms
- Multi-Coated Optics
- Zoom Eyepiece
- Waterproof
- Sighting Tube
- Soft Carrying Case
- No-Fault Lifetime Warranty

Ultima 80 - 45°
Model #52250

Ultima 100 - 45°
Model #52252

Ultima®
REFRACTOR

Ultima 80- Straight
Model #52254

Ultima 100 - Straight
Model #52257

ULTIMA SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52248	Ultima 65 – 45° View	65mm	386mm	18-55x	Waterproof	1.7°-.73°	89@18x 38@55x	18@18x	20@18x	Multi-Coated	13 in.	2.3 lb.
52249	Ultima 65 – Straight View	65mm	386mm	18-55x	Waterproof	1.7°-.73°	89@18x 38@55x	18@18x	20@18x	Multi-Coated	16 in.	2.3 lb.
52250	Ultima 80 – 45° View	80mm	480mm	20-60x	Waterproof	2°-1°	105@20x 53@60x	18@20x	27@20x	Multi-Coated	16 in.	3.6 lb.
52254	Ultima 80 – Straight View	80mm	480mm	20-60x	Waterproof	2°-1°	105@20x 53@60x	18@20x	27@20x	Multi-Coated	19 in.	3.6 lb.
52252	Ultima 100 – 45° View	100mm	540mm	22-66x	Waterproof	1.8-1°	95@22x 53@66x	18@22x	33@22x	Multi-Coated	19 in.	4.5 lb.
52257	Ultima 100 – Straight View	100mm	540mm	22-66x	Waterproof	1.8-1°	95@22x 53@666x	18@20x	33@22x	Multi-Coated	22 in.	4.5 lb.

Specifications subject to change without prior notice.

Ultima® ED REFRACTOR

The Ultima ED Series is the high end version of Celestron's highly acclaimed Ultima Series. The ED Series features the same rugged construction and features as the regular Ultima models except the optics have been upgraded with Extra Low Dispersion (ED) glass for razor sharp images and virtually no chromatic aberration. Ultima ED Series spotters perform extremely well under all light conditions which makes them ideal for all types of outdoor viewing activities including bird watching, nature and wildlife, target shooting – even astronomy. The Ultimas are as great to look at as they are to look through. Their sleek design is accented with graceful contours that make them easy to hold and handle. The Ultima ED Series spotters are the perfect choice for the outdoor enthusiast looking for a spotter with quality design and construction, superior optics, and versatility at an affordable price.

Ultima ED Series Features:

- 100mm, 80mm, 65mm Aperture Spotting Scopes
- Extra Low Dispersion (ED) Glass
- Multi-Coated Optics
- Bak-4 Prisms
- Zoom Eyepiece
- Waterproof
- Sighting Tube
- Soft Carrying Case
- No-Fault Lifetime Warranty

ULTIMA ED SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52247	Ultima 65ED – 45°	65mm	386mm	16-48x	2.5°-1.3°	131@16x 66@48x	18@16x	20@16x	Multi-Coated	13 in.	2.3 lb.
52251	Ultima 80ED – 45°	80mm	480mm	20-60x	2°-1°	105@20x 53@60x	18@20x	27@20x	Multi-Coated	16 in.	3.6 lb.
52253	Ultima 100ED – 45°	100mm	540mm	22-66x	1.8°-1°	95@22x 53@66x	18@22x	33@22x	Multi-Coated	19 in.	4.5 lb.

Specifications subject to change without prior notice.

Celestron Mini Maks bring portability and versatility to a new level. The Maksutov optical design is recognized for being compact, easy to use, and applicable for both terrestrial (land) and astronomical use. The Mini Maks are a small but powerful series of spotting scopes that includes a tabletop tripod which has built-in slow motion controls (#5223 features a panhandle control), a built-in zoom eyepiece capable of 90x magnification, and soft carrying case.

C50 Mini Mak
Model #52233

C65 Mini Mak
Model #52234

Mini-MAK
SPOTTING SCOPES

C65 Mini Mak
Waterproof
Model #52236

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C50 Mini Mak Features:

- Maksutov-Cassegrain optical design with multi-coated optics
- Waterproof
- 45° eyepiece – zooms up to 75x
- 1.25" eyepiece adapter allows usage of any 1.25" eyepiece
- Table top tripod
- Soft sarrying case
- No-Fault Lifetime Warranty

C65 Mini Mak/C65 Mini Mak Waterproof Features:

- Maksutov-Cassegrain optical design with multi-coated optics
- Waterproof (#52236)
- 45° eyepiece – zooms up to 90x
- Table top tripod with slow motion controls
- Soft carrying case (#52236 features an aluminum case.)
- No-Fault Lifetime Warranty

C70 Mini Mak Features:

- Maksutov-Cassegrain optical design with multi-coated optics
- 45° eyepiece – zooms up to 75x
- 1.25" eyepiece adapter allows usage of any 1.25" eyepiece
- Table top tripod with slow motion controls
- Soft carrying case
- No-Fault Lifetime Warranty

C70 Mini Mak
Model #52238

MINI-MAK SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52233	C50 Mini Mak	50mm	580mm	25-75x	1.3°-.7°	68@25x 35@75x	20@25x	10@25x	Multi-Coated	10 in.	1.7 lb.
52234	C65 Mini Mak	65mm	835mm	30-90x	1.5°-.5°	79@30x 26@90x	15@30x	33@30x	Multi-Coated	9 in.	3.1 lb.
52236	C65 Mini Mak Waterproof	65mm	835mm	30-90x	1.5°-.5°	79@30x 26@90x	15@30x	33@30x	Multi-Coated	9 in.	3.4 lb.
52238	C70 Mini Mak	70mm	750mm	25-75x	1.3°-.7°	68@25x 35@75x	22@25x	16@25x	Multi-Coated	11 in.	2.0 lb.

Specifications subject to change without prior notice.

C90 Mak Waterproof
Model #52265

Waterproof

MAK
SPOTTING SCOPES

Celestron Maks bring portability and versatility to a new level. The Maksutov optical design is recognized for being compact, easy to use, and applicable for both terrestrial (land) and astronomical use. The C90 Mak features an internal flip mirror design which allows the user to view celestial objects at a 90° angle and also corrects the image orientation to view land objects at a 45° angle. The full-featured C90 Mak is also rubber covered and completely waterproof. Compared to the 90mm Mak, the Celestron C130 Mak offers images that are twice as bright, allowing for better performance in low light conditions. The C130 Mak has excellent optics with razor sharp images over a wide field and also features an internal flip mirror design. The C130 Mak can also be mounted to a traditional heavy duty photo tripod and is also adaptable to Celestron's Advanced computerized equatorial mounts.

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C130 Mak
Model #52275

C90 Waterproof/C130 Mak Features:

- Maksutov-Cassegrain Optical Design with Multi-Coated Optics
- Rubber Armor Protective Covering for Secure Grip (#52265)
- Internal Flip Mirror system for terrestrial and astronomical use
- Comes with – 32mm Eyepiece, 45° Erect Image Diagonal and a Finderscope
- Water-Resistant Soft-Sided Case
- Limited Lifetime Warranty

MAK SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52265	C90 Mak Waterproof	90mm	1200mm	38x	1.4°	73@38x	22	20	Multi-Coated	9 in.	3.1 lb.
52275	C130 Mak	130mm	2000mm	63x	.83°	44@63x	22	40	Multi-Coated	18 in.	9.3 lb.

Specifications subject to change without prior notice.

Refractor
SPOTTING SCOPES

Our Refractor Series provides uncompromising optical quality and versatility with rugged construction and user-friendly features. Making them the perfect choice for many uses including bird watching, photography, nature study, hunting, scenic observing – in fact, almost any type of terrestrial (land) observing that you can imagine. The Mini 50mm 45° Spotting Scope packs a lot of performance in a small package! It is an extremely versatile optical instrument that is designed to perform exceptionally well in a wide range of viewing situations. Use this fully waterproof scope for bird watching, observing nature, long distance spotting, and enjoying outdoor scenery. The smooth focus and zoom controls are exceptionally easy to use and conveniently placed for quick and easy image acquisition. Weighing a mere 1.4 lbs. this high quality compact scope can easily fit into

a backpack or duffel bag. The 80ED Refractor is for serious nature and bird watchers. Extra Low Dispersion (ED) glass optics provide excellent color correction and razor sharp images while virtually eliminating chromatic aberration. The 80ED features a 2" rack and pinion focuser and a bracket that allows it to be mounted to a photo tripod or Celestron's Advanced GT computerized mount. With a focal length of 600mm (f/7.5) the 80ED refractor is well suited for wide field astrophotography as well as nature photography. The 80ED Refractor comes complete with a 25mm 1.25" eyepiece, erect image diagonal and 6x30 finderscope. The 102mm Wide View spotting scope's big 4" aperture provides bright breath-taking views and its fully multi-coated optics perform brilliantly in low light conditions. Photographers will appreciate the 102's fast 500mm f/5 optical system. Its classic refractor design with achromatic two-element lens made of crown and flint glass is well suited to both visual and photographic applications. The 102mm Wide View is lightweight and portable enough for serious field work as well as bird watching, astronomy, photography and nature study.

Mini 50mm Zoom - 45°
Model #52232

Mini 50 Refractor Features:
- Fully coated optics
- Compact waterproof design
- Extendable lens shade to reduce glare
- Folding mini tripod included
- Soft carrying case
- No-fault Lifetime Warranty

80ED Refractor
Model #52280

80ED Refractor Features:
- Extra-Low dispersion glass
- 25mm eyepiece (20x), 45° erect image diagonal, 6x30 erect image finderscope
- Adaptable to the Advanced GT computerized mount
- Limited Lifetime Warranty

102mm Wide View
Model #52270

102mm Wide View Features:
- Fully multi-coated optics
- 25mm eyepiece (20x), 10mm eyepiece (50x), 45° erect image diagonal, 8x20 erect image finderscope
- Limited Lifetime Warranty

REFRACTOR SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52232	Mini 50 Zoom	50mm	250mm	12-36x	3°-1.6°	160@12x 82@32x	17@36x	23@36x	Fully Coated	8.5 in.	1.4 lb.
52280	80ED Refractor	80mm	600mm	24x	2.2°	114@24x	20	28	Fully Multi-Coated	23 in.	4.5 lb.
52270	102mm Wide View	102mm	500mm	20-50x	2.5°	131@20x	22	15	Fully Multi-Coated	21 in.	5 lb.

Specifications subject to change without prior notice.

Onyx 80EDF Refractor
Model #52285

Optional Erect
Image Diagonal
Model #94112-A

Onyx 80EDF Features:

- Starbright® XLT high transmission coatings
- Combination of fluorite based, low dispersion glass with high density crown glass for virtually color-free images across the visible spectrum
- 2" Crayford style focuser
- Integrated dovetail compatible with Advanced GT computerized mount

Onyx & C5
SPOTTING SCOPES

C5 Spotter
Model #52291

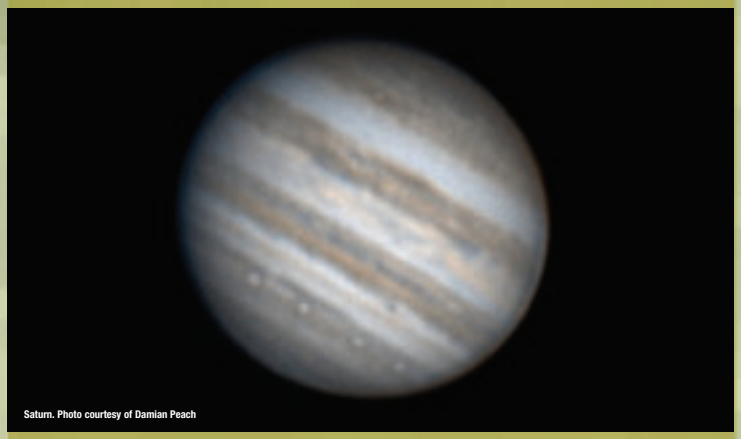
C5 Spotter Features:

- StarBright® XLT Coatings
- Schmidt-Cassegrain Optical Design
- Included: 25mm (50x) Eyepiece, 45° Erect Image Diagonal, and 6x30 Erect Image Finderscope
- Water-Resistant Soft-Sided Case
- Limited Lifetime Warranty

Celestron's Onyx 80EDF Premium Refractor with Fluoro-ED glass and Celestron's Starbright® XLT Coatings, the choice couldn't be more clear. This high-end refractor also features a 2" Crayford style rotatable focuser with built-on metal sight scope and extendable lens shade. Comes standard with premium foam-lined aluminum carrying case. Compatible with the Advanced GT computerized mount. The Celestron C5 Spotting Scope is a 5" (127mm) aperture, 1250mm effective focal length f/10 Schmidt-Cassegrain optical system. NASA has recognized the optical excellence of the C5 by selecting it for use on many of its past Space Shuttle missions.

The C5 Spotting Scope is the ideal choice for the serious bird watcher or naturalist who enjoys breathtaking views – either in their backyard or out in the field. The Celestron C5 is also a superb astronomical telescope.

Weighing a mere six pounds and measuring a short 13" in length, the C5 is a solidly-built and completely portable visual and photographic instrument that will perform flawlessly in any viewing situation. The C5's near focus of approximately 20' allows you to easily observe plant life, wildlife, birds, or insects. THE C5 is the spotting scope of choice for a powerful instrument that delivers brilliant, crisp views time after time.



Saturn. Photo courtesy of Damian Peach

Using the C5 for photography couldn't be easier. The C5 converts from a powerful spotting scope to a high performance 1250mm effective focal length f/10 telephoto lens. To take professional quality images with the C5, simply attach an optional T- Adapter and T-Ring for your 35mm SLR camera to the rear of the C5 (or a digital camera with specific adapter) and you're ready to shoot.

ONYX & C5 SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52285	Onyx 80EDF	80mm	500mm	N/A	N/A	N/A	N/A	N/A	Starbright® XLT	16 in.	6.1 lb.
52291	C5 Spotter	127mm	1250mm	50x	1°	53@50x	22	20	Starbright® XLT	13 in.	6 lb.

Specifications subject to change without prior notice.

Capture rare moments in the field.

Introducing the VistaPix Imaging Spotter (IS) from Celestron. Capture the action closer than ever before with this 3.1MP digital camera spotting scope. Unique product, advanced features, unbeatable price.

High quality spotting scope and state-of-the-art digital camera in one full-featured, easy-to-use unit.

INNOVATIONS® INTERNATIONAL CES DESIGN & ENGINEERING SHOWCASE HONORS 2007

VistaPix® IS70
IMAGING SPOTTER

VistaPix IS70 Features:

- 70mm spotting scope will get you 14x closer to the action
- 2" color LCD screen provides sharp, clear imaging preview
- 3.1 megapixel image resolution
- Dual power camera for high magnification (24x) or wide field of view (7x)
- Digital focus meter for quick, sharp focus capability
- Camera shutter cable for vibration free imaging
- 6x digital zoom
- Rotatable tripod adapter fits standard photo tripods or Celestron computerized mounts
- Continuous video capability
- View images on your TV screen with included video cable
- Retouch and modify images with included Photobase and Panorama Maker software
- Includes protective carrying case for travel and storage
- Best warranty in the business (2 year)

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VISTAPIX IS70 SPECIFICATIONS

SPOTTING SCOPE

MODEL #	MODEL	APERTURE	FOCAL	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF	NEAR FOCUS	COATING	LENGTH	WEIGHT
52212	VistaPix IS70	70mm	210mm	14x	4°	210	13mm	15 ft.	Fully Coated	18 in.	3.5 lb.

CAMERA

MODEL	SENSOR	RESOLUTION	DIGITAL ZOOM	LCD	MEMORY	FIELD OF VIEW	CAMERA POWER	TV OUT	# IMAGES HI-RES	# IMAGES LOW-RES	SELF TIMER	VIDEO (approx.)	BATTERIES REQUIRED
52212	CMOS	3.1MP (2048x1536)	6x	2"	32MB Internal & SD Card	5.6 Low 2° High	7x Low 24x High	NTSC/ PAL	38	660	10 Sec.	30 sec.	2-AA

Specifications subject to change without prior notice.

PowerSeeker® SERIES

Types of PowerSeeker Mounts

German Equatorial Mount uses a counterweight opposite the telescope to counterbalance the weight of the telescope. The telescope may be polar aligned to track the sky and compensate for the Earth's rotation.

Altazimuth Mount (or Alt-Az) moves parallel and perpendicular to the horizon. This motion is very intuitive and is especially easy to use for terrestrial viewing.

Types of PowerSeeker Telescopes

Refractor Telescopes (also known as dioptrics) are what the average person identifies with the word "telescope", a long, thin tube where light passes in a straight line from the front objective lens directly to the eyepiece at the opposite end of the tube.

Newtonian Reflector Telescopes usually use a concave parabolic primary mirror to collect and focus incoming light onto a flat secondary (diagonal) mirror that in turn reflects the image out of an opening at the side of the main tube and into the eyepiece.

No tools are required for assembly! All models come with pre-assembled tripods.

Celestron PowerSeeker telescopes

are a great way to open up the wonders of the Universe to the aspiring astronomer. The PowerSeeker series is designed to give the first-time telescope user the perfect combination of quality, value, features and power.

Amateur astronomy is a great family hobby that can be enjoyed year round, and Celestron's PowerSeekers are the ideal choice for families looking for an affordable and high quality telescope that will provide many hours of enjoyment for children and adults alike.

PowerSeekers are quick and easy to set up – even for the novice. **No tools are required for assembly!** Their sturdy equatorial mounts are perfect for tracking objects in the night sky, and the collapsible alt-azimuth mounts are perfectly suited for terrestrial (land) viewing as well as astronomical use. All of Celestron's PowerSeekers include a full range of eyepieces plus a 3x Barlow lens that provides an increase in viewing power hundreds of times greater than that of the unaided eye!

The Moon. Photo courtesy of Bill Cannistra

PowerSeekers are powerful designs with ample optical performance to excite any newcomer to the world of amateur astronomy. All models include a pre-assembled tripod for quick "no tool" setup. PowerSeekers are available in a choice of optical tube and mount designs that include refractor, reflector, equatorial, or altazimuth mounts. PowerSeekers are designed and manufactured using all fully coated glass optical components with high transmission coatings for enhanced image brightness and clarity. PowerSeeker Newtonian reflectors offer the user larger apertures and greater light gathering power that is required to resolve the faint details of hundreds of deep-sky and other celestial objects.

Erect Image Optics are ideal for terretrial (land) and astronomical (sky) use.

Locate and identify thousands of celestial objects on your laptop or PC with "The Sky" Level 1 software included **FREE** with every PowerSeeker model.

Specifications subject to change without prior notice.

PowerSeeker 60EQ
- Refractor
- German Equatorial Mount
- Eyepieces: 20mm (45x), 4mm (225x), Barlow lens 3x
- Erect image diagonal - 1-1/4"
- 1.5x image erecting eyepiece

Model #21043

PowerSeeker 50AZ
- Refractor
- Alt-Az Mount
- 20mm (30x), 12mm (50x), 4mm (150x), Barlow lens 3x
- Star diagonal - .96"
- 1.5x image erecting eyepiece

Model #21039

NEW

PowerSeeker 70EQ
- Refractor
- German Equatorial Mount
- 20mm (35x), 4mm (175x), Barlow lens 3x
- Erect Image Diagonal 1-1/4"

Model #21037

PowerSeeker 60AZ
- Refractor
- Alt-Az Mount
- 20mm (35x), 4mm (175x), Barlow lens 3x
- Erect image diagonal 1-1/4"

Model #21041

PowerSeeker® SERIES

PowerSeeker 80EQ
- Refractor
- German Equatorial Mount
- Eyepieces: 20mm (45x), 4mm (225x), Barlow lens 3x
- Erect image diagonal - 1-1/4"

Model #21048

PowerSeeker 127EQ
- Newtonian Reflector
- German Equatorial Mount
- Eyepieces: 20mm erect image (50x), 4mm (250x), Barlow lens 3x
- Focuser 1-1/4"

Model #21049

PowerSeeker 114EQ
- Newtonian Reflector
- German Equatorial Mount
- Eyepieces: 20mm erect image (45x), 4mm (225x), Barlow lens 3x
- Focuser 1-1/4"

Model #21045

POWERSEEKER SPECIFICATIONS

MODEL #	DESCRIPTION	OPTICAL DESIGN	MOUNT	APERTURE	FOCAL LENGTH	FINDERSCOPE	WARRANTY
21043	PowerSeeker 60EQ	Refractor	German Equatorial	60mm (2.4")	900mm (f/15)	5x24	2-Year
21037	PowerSeeker 70EQ	Refractor	German Equatorial	70mm (2.8")	700mm (f/10)	5x24	2-Year
21048	PowerSeeker 80EQ	Refractor	German Equatorial	80mm (3.1")	900mm (f/11)	5x24	2-Year
21045	PowerSeeker 114EQ	Newtonian Reflector	German Equatorial	114mm (4.5")	900mm (f/8)	5x24	2-Year
21049	PowerSeeker 127EQ	Newtonian Reflector	German Equatorial	127mm (5")	1000mm (f/8)	5x24	2-Year
21039	PowerSeeker 50AZ	Refractor	Altazimuth	50mm (2")	600mm (f/12)	5x24	2-Year
21041	PowerSeeker 60AZ	Refractor	Altazimuth	60mm (2.4")	700mm (f/12)	5x24	2-Year

Specifications subject to change without prior notice.

AstroMaster 130EQ
- Newtonian Reflector
- German Equatorial Mount (CG-3)
- Eyepieces: 20mm erect image (33x), 10mm (65x)
- Star Pointer Finderscope
- Aluminum coated glass optics

Model #31045
Model #31051
(Includes R.A. motor drive)

AstroMaster® SERIES

ASTROMASTER FEATURES:
- Quick and easy no-tool setup
- Permanently mounted StarPointer
- Erect image optics - Ideal for terrestrial and astronomical use
- Quick release dovetail attachment - no tool setup
- Pan handle Alt-Az control with clutch - for smooth and accurate pointing (21061, 21063 & 31043)
- German Equatorial Mount with Setting circles - to accurately locate and track sky objects (21062, 31035, 21064, 31042 & 31045)
- Rugged pre-assembled tripod with 1.25" steel tube legs - Provides a rigid and stable platform
- All coated glass optics for clear, crisp images
- Deluxe accessory tray for convenient storage of accessories
- "The Sky" Level 1 planetarium software with 10,000 object database and enhanced images

Which AstroMaster model best fits your needs?

If you're looking for a dual-purpose telescope appropriate for both terrestrial and celestial viewing, then the AstroMaster Series is for you. Each AstroMaster model is capable of giving correct views of land and sky. The AstroMaster Series produce bright, clear images of the Moon and planets. It is easy to see the moons of Jupiter and the rings of Saturn with every one of these fine instruments. For views of the brighter deep space objects like galaxies and nebulae, we recommend the larger aperture and light gathering ability of the Newtonian reflectors.

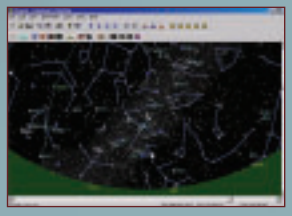
If your interest is strictly watching whales, spotting birds, viewing nature, or checking out your favorite star or planet the altazimuth-mounted models are ideal. Alt-Az models have a convenient pan handle with built-in clutch for easy targeting and smooth motion. Models featuring the German Equatorial mount are a good choice for viewing stars, nebulae, star clusters, and planets. Built-in setting circle aids in locating these objects.

Saturn. Photo courtesy of Sebastian Voltmer

When used for astronomical viewing, AstroMasters yield breathtaking views of the Moon, Saturn with its ring structure, Jupiter and its belts and moons, nebulae and star clusters.

Every instrument features all glass optical elements as well as smooth operating steel tripod mountings featuring manual motion controls. All models feature coated optics for enhanced image brightness and clarity.

No tools are required for assembly!
All models come with pre-assembled tripods.



Locate and identify thousands of celestial objects on your laptop or PC with "The Sky" Level 1 software included **FREE** with every AstroMaster model.

Specifications subject to change without prior notice.

AstroMaster® SERIES

AstroMaster 70AZ
- Refractor
- Alt-Az mount
- Eyepieces: 20mm (45x), 10mm (90x)
- 1.25" erect image diagonal
- StarPointer finderscope
- Fully coated glass optics

Model #21061

AstroMaster 90EQ
- Refractor
- German equatorial mount (CG-3)
- Eyepieces: 20mm (50x), 10mm (100x)
- 1.25" erect image diagonal
- StarPointer finderscope
- Multi-coated glass optics

Model #21064
Model #21069
(includes R.A. motor drive)

AstroMaster 70EQ
- Refractor
- German equatorial mount (CG-2)
- Eyepieces: 20mm (45x), 10mm (90x)
- 1.25" Erect image diagonal
- StarPointer finderscope
- Fully coated glass optics

Model #21062

AstroMaster 114EQ
- Newtonian Reflector
- German equatorial mount (CG-2)
- Eyepieces: 20mm erect image (50x), 10mm (100x)
- StarPointer finderscope
- Aluminum coated glass optics

Model #31042

AstroMaster 76EQ
- Newtonian Reflector
- German equatorial mount (CG-2)
- Eyepieces: 20mm erect image (35x), 10mm (70x)
- StarPointer finderscope
- Aluminum coated glass optics

Model #31035

AstroMaster 90AZ
- Refractor
- Alt-Az mount
- Eyepieces: 20mm (50x), 10mm (100x)
- 1.25" erect image diagonal
- StarPointer finderscope
- Multi-coated glass optics

Model #21063

AstroMaster 114AZ
- Newtonian Reflector
- Alt-Az mount
- Eyepieces: 20mm erect image (50x), 10mm (100x)
- StarPointer finderscope
- Aluminum coated glass optics

Model #31043

ASTROMASTER SPECIFICATIONS

MODEL #	DESCRIPTION	APERTURE	DESIGN	FOCAL LENGTH	MOUNT	COATING	WEIGHT
21061	AstroMaster 70AZ	70mm (2.8")	Refractor	900mm f/13	Altazimuth	Fully Coated	18 lbs
21062	AstroMaster 70EQ	70mm (2.8")	Refractor	900mm f/13	CG-2 Equatorial	Fully Coated	18 lbs
31035	AstroMaster 76EQ	76mm (3")	Reflector	700mm f/9	CG-2 Equatorial	Aluminum	16 lbs
21063	AstroMaster 90AZ	90mm (3.5")	Refractor	1000mm f/11	Altazimuth	Multi-coated	20 lbs
21064	AstroMaster 90EQ	90mm (3.5")	Refractor	1000mm f/11	CG-3 Equatorial	Multi-coated	23 lbs
21069	AstroMaster 90EQ W/ Motor Drive	90mm (3.5")	Refractor	1000mm f/11	CG-3 Equatorial	Multi-coated	24 lbs
31042	AstroMaster 114EQ	114mm (4.5")	Reflector	1000mm f/9	CG-2 Equatorial	Aluminum	17 lbs
31043	AstroMaster 114AZ	114mm (4.5")	Reflector	1000mm f/9	Altazimuth	Aluminum	17 lbs
31045	AstroMaster 130EQ	130mm (5")	Reflector	650mm f/5	CG-3 Equatorial	Aluminum	24 lbs
31051	AstroMaster 130EQ W/ Motor Drive	130mm (5")	Reflector	650mm f/5	CG-3 Equatorial	Aluminum	25 lbs

Specifications subject to change without prior notice.

NexStar 130 SLT

The user friendly NexStar series....

Designed to be an affordable entry level to mid-level computerized GoTo telescope,the NexStar SLT refractors and reflectors are available in the most popular sizes and are loaded with valuable design features. With pre-assembled, adjustable stainless steel tripods, and quick release fork arms and tubes, NexStar SLT telescopes can be set up in a matter of minutes – with no tools required!

You can see details of the lunar surface, Venus and its phases, Mars resolved as an orange disc, Jupiter and its four moons, Saturn with its rings plainly visible and much more! Most NexStar SLT's can also be used as a land-based spotting telescope.

Intelligent Design: Powered by 8 AA (user supplied) batteries or an optional AC adapter (#18776) these NexStar GoTo's love to travel. The internal battery compartment provides power to the high precision servo motors for rigid low-vibration performance while eliminating cord wrap issues associated with external battery packs.

NexStar SLT™ SERIES

Solar Eclipse. Photo courtesy of Jason Fournier.

Standard Features and Accessories Include:

- Computerized hand control with 4,000+ object database
- Quick-release fork arm mount, optical tube and accessory tray for quick no tool set up
- SkyAlign allows you to align on any three bright celestial objects, making for a fast and easy alignment process
- Comes with "The Sky" Level 1 planetarium software and NSOL telescope control software for controlling your telescope via computer
- Internal battery compartment to prevent cord wrap during use
- Sturdy stainless steel tripod
- StarPointer finderscope to help with alignment
- Auxiliary port for additional accessories such as GPS accessory
- Motorized altazimuth mount and fully computerized hand control
- U.S. and International city database to easily set your location
- Flash upgradeable hand control software and motor control units
- Operates in both AC and DC (AC requires an optional adapter)
- 2 year warranty

With the NexStar's ergonomically designed hand control, the user is free to remove the hand control from its holder for remote use or leave it cradled for hands-free operation. With a touch of a button you can select the object catalog, change the slew speed, view fascinating information about an object, or simply know if a desired object is visible in the sky.

Celestron's Revolutionary SkyAlign

Easy as 1 - 2 - 3!

SkyAlign™

Revolutionary Alignment Technology

Using Celestron's patented SkyAlign (patent pending), simply input the date, time and location into the hand control then slew the telescope to any three bright celestial objects in the sky. You do not need to know the names of the stars – you can even pick the Moon or bright planets!

Specifications subject to change without prior notice.

NexStar 60SLT
- 60mm Computerized Refractor
- Altazimuth Mount

Model #22076

NexStar 114SLT
- 114mm Computerized Newtonian Reflector
- Altazimuth Mount

Model #31143

NexStar 80SLT
- 80mm Computerized Refractor
- Altazimuth Mount

Model #22086

NexStar SLT™ SERIES

NexStar 130SLT
- 130mm Computerized Newtonian Reflector
- Altazimuth Mount

Model #31145

NexStar 102SLT
- 102mm Computerized Refractor
- Altazimuth Mount

Model #22096

NEXSTAR SLT SPECIFICATIONS

MODEL #	DESCRIPTION	APERTURE	OPTICAL DESIGN	FOCAL LENGTH	EYEPIECES	FINDERSCOPE	MOUNT	WEIGHT
22076	NexStar 60 SLT	60mm (2.4″)	Refractor	700mm f/12	25mm (28x), 9mm (78x)	StarPointer	Altazimuth	9.5 lbs
22086	NexStar 80 SLT	80mm (3.1″)	Refractor	900mm f/11	25mm (36x), 9mm (100x)	StarPointer	Altazimuth	14 lbs
22096	NexStar 102 SLT	102mm (4″)	Refractor	660mm f/6.5	25mm (26x), 9mm (73x)	StarPointer	Altazimuth	14 lbs
31143	NexStar 114 SLT	114mm (4.5″)	Reflector	1000mm f/9	25mm (40x), 9mm (111x)	StarPointer	Altazimuth	15 lbs
31145	NexStar 130 SLT	130mm (5″)	Reflector	650mm f/5	25mm (26x), 9mm (62x)	StarPointer	Altazimuth	18 lbs

Specifications subject to change without prior notice.

SkyScout®
PERSONAL PLANETARIUM®

The SkyScout is a revolutionary handheld device that uses advanced GPS technology with point and click convenience to identify thousands of stars, planets, constellations and more.

Identify: Simply point the SkyScout at any star in the sky and click the "target" button. The SkyScout will tell you what object you are looking at.

Locate: To locate a star or planet, select the object's name from the menu and follow the directional arrows through the viewfinder. SkyScout tells you when you are on target. It's that easy!

Learn: Once you have targeted an object, the real fun begins. The SkyScout provides entertaining and educational audio and text information, including facts, trivia, history and mythology about our most popular celestial objects.

A fun learning tool for all ages, the SkyScout personal planetarium puts the knowledge of an expert astronomer in the palm of your hand.

SkyScout Features:

- Uses GPS technology to identify over 6,000 celestial objects with the click of a button
- Locate stars, planets, constellations and more
- Simple enough for all ages – just turn it on and it's ready to use
- Includes "Tonight's Highlights", a customized list of the 20 best objects to view for your exact date, time and location anywhere in the world
- Audio and in-depth text descriptions provide history, mythology and other information for the most popular objects
- Take a guided tour through all 88 constellations and even see on-screen constellation maps
- Built-in Field Guide includes a six part audio lesson on astronomy, bios about history's greatest astronomers, glossary of popular astronomy terms, information on comets, man-made space objects, extra-solar planets and much more
- Bring it anywhere – durable, compact and light design makes it easy
- Database can be updated with new objects, comets, etc.
- Includes: vinyl carry case, earphones, battery sleeves, USB cable and CD-ROM w/ user manual and tutorial

MODEL #	DESCRIPTION	BATTERIES	WARRANTY
93970	SkyScout Personal Planetarium	2 AA (user supplied)	2-Year

Specifications subject to change without prior notice.

SkyScout Scope 90
- 90mm Refractor
- Altazimuth Mount
- Adjustable SkyScout Mount (SkyScout not included)

Model #21068

NEW

For More Information on All SkyScout Accessories visit www.celestron.com/skyscout

With the introduction of the award winning SkyScout® Personal Planetarium®, Celestron® has made it possible for the everyday consumer to access the knowledge of an expert astronomer with this compact easy-to-use device. Now Celestron is proud to offer these exciting new accessories that will enhance your journey through the cosmos while using the SkyScout. All accessories are designed for easy set-up and use with the SkyScout Personal Planetarium.

SkyScout® Scope – Designed exclusively for use with the SkyScout® Personal Planetarium®. Simply attach the SkyScout to the specially designed mount to locate and identify celestial objects. Once the SkyScout has located or identified an object it's time to take your celestial experience to the next level and use the SkyScout Scope to get a closer look at the wonders of the universe.

SkyScout® Scope 90 Features:

- Designed with non-magnetic materials that do not to interfere with the SkyScout sensors
- Quick and easy no tool setup
- 90mm refractor optical design with all coated glass optics and 660mm (f/7) focal length for crisp, clear images
- Erect image 6x30 finderscope with quick-release bracket
- Erect image optics are ideal for terrestrial and astronomical use
- Pan handle control with clutch for smooth and accurate pointing
- Rugged pre-assembled tripod with 1.25" stainless steel tube legs provides a rigid and stable viewing platform
- Accessory tray for convenient accessory storage
- Adjustable bracket to hold SkyScout (SkyScout Personal Planetarium sold separately)

SkyScout®
ACCESSORIES

SkyScout Connect

SkyScout Expansion Cards

SkyScout® Connect – Allows the SkyScout® Personal Planetarium® to be connected directly to Celestron computerized telescopes. Locate any object in the SkyScout database and your computerized telescope will slew to the same object with a touch of a button.

SkyScout® Expansion Cards – "Astronomy For Beginners" and "All About The Stars" expansion cards for the SkyScout® Personal Planetarium®. Both cards feature in-depth information on a variety of topics and are designed to be educational as well as entertaining. These cards provide additional text, audio, graphics and interactive lessons that will help you better understand the universe around us.

MODEL #	DESCRIPTION	WARRANTY
21068	SkyScout Scope 90 – 90mm Refractor Telescope with Altazimuth Mount, Tripod and SkyScout Mount	2-Year
93980	SkyScout Connect	
93991	"Astronomy For Beginners" SkyScout Expansion Card	
93992	"All About The Stars" SkyScout Expansion Card	

Specifications subject to change without prior notice.

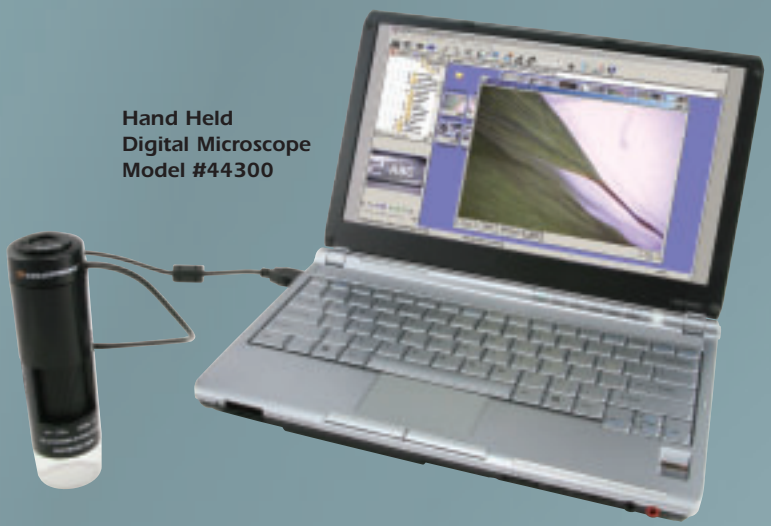
Microscopes
DIGITAL MODELS

LCD Digital Microscope
Model #44340

Breakthrough in microscope technology! Our LCD DigitalMicroscope replaces traditional eyepieces with a LCD Screen for easy and comfortable viewing for yourself and to share with others. Also features a built-in digital camera for quick and easy snapshots or short videos.

FEATURES INCLUDE:

- Compound (Biological) Microscope
- 40 to 400 Power – up to 1600 Power with Digital Zoom
- 3.5" (88mm) LCD Screen with 4x Digital Zoom
- Built-in Digital Camera – 2mp
- Top and Bottom LED Illumination
- Mechanical Stage – 3.5" x 3.5" (88mm x 88mm)
- 128MB Internal Storage Memory
- SD Card Slot
- Five Prepared Slides
- Objective Lens – 4x, 10x, and 40x
- Six Position Color Filter Wheel
- USB Cable for Transferring Images to a PC
- AC Adaptor to Power the Microscope
- Carrying Case Included
- Weight – 51oz (1446g)
- Two Year Limited Warranty



Hand Held
Digital Microscope
Model #44300

computer not included

cell phone button at 20x

cell phone button at 400x

Handheld Digital Microscope

A large breakthrough in microscope design! It has a digital camera and LED illuminator built into a small, compact package that weighs just three ounces. You view and capture images (snapshots or video) at 20x power or 400x power on a PC or laptop computer with the attached USB cable. This microscope can be used in virtually every area that a traditional microscope is used.

FEATURES INCLUDE:

- Handheld Digital Microscope up to 400x
- Technology Breakthrough
- View and/or Capture Images or Video with Your Computer
- Powers Available - 20x and 400x
- White LED Illumination
- Weight is Just 3 oz. (85g)
- USB 2.0 Cable
- Knurled Ring for Focusing & Power Changing
- Compact Size - 5" x 13/8" (127mm x 35mm)
- CD-ROM - Driver & Software Installation
- Operating System Requirements – Windows 98/2000/ME/XP/Vista
- CE, FCC and RoHS Compliant

MODEL #	DESCRIPTION	WARRANTY
44340	LCD Digital Microscope	2 Year
44300	Handheld Digital Microscope	2 Year

Specifications subject to change without prior notice.

Microscopes
DIGITAL MODELS

Digital Microscope Kit
This multi-purpose microscope can be used as a traditional microscope with powers up to 600x or attach the digital camera to view on your computer. It's the perfect tool for discovering and learning about the world we can't see. Included software allows you to save digital images and video to your computer.

FEATURES INCLUDE:

- Biological microscope with powers from 40x to 600x
- Zoom eyepiece from 10x to 20x
- 4x, 15x, 30x objective lenses
- Digital camera
- Topand bottom electric illumination
- Imaging software included on CD-ROM
- 3 prepared slides, rocks and honeybee wing
- Weight 22 oz.

DIGITAL CAMERA SOFTWARE SYSTEM REQUIREMENTS:

- Windows 98/98SE/2000/ME/XP/Vista
- CD/DVD drive & open USB port

actual images

Remove eyepiece and replace with digital camera to capture images and video with your computer.

Digital Microscope Kit
Model #44320

Microscope Imager
Easily capture digital images with most biological and stereo microscopes with this imager. It connects via the included USB 2.0 cable to a PC or laptop computer.

FEATURES INCLUDE:

- Digital Imager for Your Microscope
- View and/or Capture Images or Video with Your Computer
- Image Power Determined by the Microscope Power Used
- Adapts to Virtually All Biological, Dissecting, and Stereo Microscopes
- VGA Resolution
- CD-ROM for Imager & Software Installation

Microscope Imager
Model #44420

microscope and computer not included

MODEL #	DESCRIPTION	WARRANTY
44320	Digital Microscope Kit	2-Year
44420	Microscope IMager	2 Year

Specifications subject to change without prior notice.

BINOCULARS
SEE PAGES 3-15

SPOTTING SCOPES
SEE PAGES 16-25

TELESCOPES
SEE PAGES 26-31

SKYSCOUT™
SEE PAGE 32-33

ABOUT CELESTRON For nearly four decades, Celestron has been recognized as one of the world's leading designers and manufacturers of high quality computerized and non-computerized telescopes, binoculars, spotting scopes, microscopes, and related accessories.

The foundation of Celestron's commitment to product design and engineering innovation is based upon its longstanding ability to manage and control all aspects of the design-to-market process. Celestron's staff of experienced engineers, industrial designers, and optical experts are consistently improving and refining our products as well as developing new products and technologies for our customers.

Celestron's passion for continuous product improvement, innovation, and design excellence ensures products that provide our customers with years of enjoyment, reliability, and, most important – VALUE.

For more information on the entire Celestron product line or to find a dealer near you please visit us at:

www.celestron.com

PERFORMANCE • INNOVATION • VALUE

CELESTRON®

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